

Mitchell Burk

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EXPERIENCE

Purdue University Northwest

MAR. 2020 - AUG 2021

Machine Learning Researcher

- Using word2vec on the COVID-19 Open Research Dataset (*Python, PyTorch, TensorFlow, word2vec, Ubuntu, NLTK*)
- Research in NLP and visualizing multi-dimensional word embeddings (*PyTorch, TensorFlow, vec2graph, Reinforcement Learning, DNN/CNN*)
- Assisted in various other tasks when asked of me such as account creation, automation, etc.

Purdue University Northwest

SEPT 2018 - NOV 2019

Security Specialist

- Responded to incidents involving *spam/phishing emails, compromised accounts, suspicious network activity*
- Wrote code to parse unorganized reports (*Python, Pandas, Anaconda*)
- Record keeping of weekly firewall reports and malware scans (*Checkpoint, Malwarebytes, McAfee*)
- Assisted in the creation of weekly "Security Tips" sent out to all faculty, staff, and students

All Information Services Inc. (AIS)

MAY 2017 - AUG 2017

Junior Network Analyst

- Installed networking equipment for a public school district (*Access Points, Switches, Racks*)
- Assisted with Cisco Switch configuration

PROJECTS

Registration Of Users To High-Performance Cluster

JAN 2021 - MAY 2021

- Registered and managed required individuals to a private high-performance cluster for machine learning purposes (*Linux*)
- Communicated with the high-performance cluster team for troubleshooting

Automating Software Installation & Configuration

JAN 2021 - MAY 2021

- Created bash script that would pull software installations, give executable permissions, and install/configure software for all users (*Linux, Bash*)

Creating And Deploying Custom Python Environments

JAN 2021 - MAY 2021

- Created custom python environments that would install various libraries for a class of 30 students
- Environments were then deployed to the users with a script for installation (*Python, Anaconda, Linux, Bash, TensorFlow*)

Data Analysis And Visualization

SEPT 2018 - NOV 2019

- Parsed CSV files from vulnerability scans using Python to visualize data and find trends (*Python, Pandas, Matplotlib, CSV, GitHub*)

Ransomware Creation

FALL 2018

- Created a basic ransomware program that would attack a Linux virtual machine (*Python, Linux, VMware, GitHub*)
- Would prompt victim machine for a password. If the wrong password was entered, the system would be deleted (*Python, Linux, VMware, Security, Encryption*)

ACADEMIC ACCOMPLISHMENTS

Dean's List

Acquired:

Fall 16, Spring 17, Fall 17, Spring 18,
Fall 18, Spring 19, Fall 19, Spring 20

Semester Honors

Acquired:

Fall 16, Spring 17, Fall 17, Spring 18,
Fall 18, Spring 19, Spring 20

EDUCATION

Purdue University Northwest

AUG 2016 - MAY 2020

GPA: 3.71 (CUM LAUDE)

Bachelor's

Computer Information
Technology

SKILLS

Python, Linux, Security, Pandas, NumPy, Automation, GitHub,
Bash, MySQL, C, JavaScript, Django, Splunk